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TI Preparation of aqueous dispersion used for paint preparation etc. - by copolymerising unsatd. carboxylic acid monomer.
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Aqueous dispersion is prepared by copolymerising (A) 100 pts.weight monomer mixture containing 0.5-30 weight% alpha,beta-unsatd. carboxylic acid in (B) an aqueous polyurethane dispersion prepared from aliphatic, aromatic or alicyclic polyisocyanate containing at least 2 NCO gps. or polyurethane prepolymer containing terminal NCO gp. and a polyol. (A) is used in an amount of 0.01-2.5 pts.weight as solids per 100 pts.weight (B).

The polyisocyanate is pref. aliphatic polyisocyanate or alicyclic polyisocyanate. The polyol is most pref. polyether, polyester or polycarbonate. The monomer mixture comprises alpha,beta-carboxylic acid e.g. (meth)acrylic, crotonic, maleic, fumaric, itaconic acid, etc. and at least 20 weight% copolymerisable monomer e.g. alkyl (meth) acrylate, styrenic monomer, vinyl cyanide cpd. e.g. (meth) acrylonitrile, etc., aliphatic conjugated diene e.g. 1,3-butadiene, 2-methyl-, 2,3-dimethyl-, 2-cyano- or 2-chloro-1,3-butadiene, substd. linear conjugated pentadiene, linear or branched conjugated hexadiene, etc., vinyl carboxylate e.g. vinyl acetate, vinyl stearate, etc., vinyl ether e.g. vinylidene halide or vinyl methyl ketone, vinylpyridine, isobutylene, 11-chlorofluoroethylene etc.

USE/ADVANTAGE - Dispersion contains high mol.weight copolymer and forms a film having high elasticity, toughness and abrasion resistance. The dispersion is used for preparing impregnated fibre, impregnated paper, paint, paint for coating paper, adhesive, aqueous varnish, aqueous ink or protecting coat.
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